mPIC/PADS/D/6-1313 22 April 1966

Declass Review by NGA.

i			1
	MEMORANDUM FOR THE RECORD		
25X1	SUBJECT: Visit 13-14 April 1966		
	REFERENCE: Step & Repeat Contact Printer (Project #99761-4), Dry Photo Process Study, Film & Paper (Projects #997103 & 998495), and Field Dry Process Printer (Project #997296)		-
25X1	ATTENDERS		
25X1	l. The visit was opened with discussions concerning emulsic adhesion to the plastic film base and the possibility of devising a test for measuring the adhesion. Since there are no tests for measuring emulsionadhesion within the photographic industry, personnel suggested the of the "Scotch Tape Test" which is generally used for testing organic solubble coatings. It was stated that there was a Mill Standard for the test and that this would be used as the basis for determining a satisfacemalsion adhesion.	t ision ise 25)	< 1
25X1	2. asked what the general use and viewing conditions we be for the dry process film. It was stated that the film would be subject to scratches on relieve and viewing surfaces on light tables and would be subject to the cooling liquids and high temperatures of madern rese projection viewers.	et	
	3. The latest version of files and paper coatings were demonstrate These samples indicated a breakthrough in the area of image quality and background tint. In contrast to the previous orange and yellow-brown background tint, the new sample displayed an almost clear base. The fill displayed 18-20 grey scale steps and the paper 12-14 steps. person indicated that the image characteristics were controllable by variations exposure and/or development so that conventional photographic manipulate could be imitated with dry process silver techniques.	m lel 25>	\
25X1 25X1	stated that dry process paper requirements could be broken down into three areas: (1) contact papers, (2) enlargement paper and (3) an urgent need for dry process reversal papers. It was further stated that the need for reversal process is so urgent that a slight reduction in characteristics such as resolution, grey scale, etc., would be acceptable. Stated that		X 1
	Approved For Release 2005/02/17 : CIA-RDP78B04770A001400030008-7	Show a saterate daying and declassification	And handle to be dead for a straight of the st

SECRET

this area (at company expense) to determine what the chances of success would be, especially in view of recent successes with normal dry process silver developments.

- 5. Parameters and goals for the development of dry process papers were discussed and suggestions as to practical development objectives were made. It was suggested that testing procedures be more realistic and representative of natural conditions. It was requested that invaidity test requirements be changed from 30-405 up to 75% relative humidity.
- 6. A demonstration of the newset paper used both as contact and as enlargement paper was given. A demonstration of the newset film exposed in a camera with a flush attachment was also given. The results of this effort were not very good.

7. The breadboarded Step and Repeat Contact Printer was shown and			
demonstrated. A sample of the latest batch of film was processed at			
varying speeds to demonstrate different development characteristics.			
The prototype printer is still at			
undergoing final assembly and testing. It was expected that the unit will			
be completed by 30 June, however, I have since been informed that			
is behind schedule and will need another time extension.			

- 8. The basic paper processor (approximately 45" x 6" x 6") was shown and demonstrated. This unit is an off-the-shelf item which will be modified by the addition of a speed control so that processing times can be adjusted for desired results.
- 9. The paremeters of a possible condensed "fly away kit" dry film printed processor were discussed. ____ personnel indicated that the goals seemed to be very well within the state-ci-the-art, although exact configurations would depend upon the lines characteristics of the dry process silver emulsions developed.

Development Branch, PSDS

Distribution:

Original - Project File/DB (#997614)

1 - Project File/DB (#9973.03

1 - Project File/DB (#998:95)

1 - Project File/DB (#997296)

1 - Chrono/DB

clc

25X1

25X1

25X1

25X1

25X1